

## Antibody Datasheet

**Name:** Goat Anti-Escherichia coli O104 Species Antibody

**Product Code:** 5310-0334

**Batch #:**

**Date of Manufacture:**

**Product Description:** Affinity purified polyclonal antibody to E. coli O104 made in goat (BacTrace®). Isolated from a serum pool of goats immunized with heat-killed whole cells of E.coli serogroup O104. Certain strains of the E. coli serogroup O104 are considered to be STECs (shiga-toxin producing E. coli).

**Amount:** 1.0 mg (as determined by UV absorbance at 280 nm)

**Presentation:** Lyophilized

**Rehydration:** Two methods for rehydration and storage are recommended to meet most needs, Procedure A, using 50% glycerol, is preferred. It eliminates freezing at -20 °C and is an effective biological inhibitor. At a working dilution, the level of glycerol is too small to affect most assays.

### Procedure A: 50% Glycerol

- Solution Preparation: Mix 1 part glycerol with 1 part reagent quality water.
- Rehydration: Transfer 1 mL of the 50% glycerol solution to the product vial. Rotate the vial until the lyophilized pellet is totally dissolved. Antibody concentration will then be 1.0 mg/mL.
- Storage: The rehydrated product is stable for a minimum of 1 year at 2-8 °C.

### Procedure B: Acetic Acid/Bi-Carbonate

- Solution Preparation: Prepare immediately before use:
  - M Acetic Acid Solution: Mix 25 µL of Glacial Acetic Acid and 40 mL reagent quality water.
- 0.177M Carbonate-Bicarbonate Solution: Dissolve 1.09 g of Na<sub>2</sub>CO<sub>3</sub> and 0.63 g of NaHCO<sub>3</sub>, in 100 mL reagent quality water.
- Rehydration: Add 0.1 mL of 0.01M Acetic Acid to 1 mg of antibody. Rotate vial until totally dissolved. Add 0.1 mL of the Carbonate-Bicarbonate Solution and rapidly mix to obtain a clear or opalescent solution. Heat at 37°C for 30 minutes and allow to slowly cool to room temperature. Final concentration is 5.0 mg/mL.
- Storage: This product may be stored for up to one week at 2-8°C; thereafter, it should be stored at -20 °C. At -20 °C, product is stable for a minimum of 1 year.

**Stabilizer:** No stabilizers added.



**Preservative:** No preservatives added. Non-sterile.

**Immunogen:** Heat-killed whole cells of E. coli serotype O145.

**Purification:** Affinity purified

**Specificity:** This product is designed to react specifically with E. coli O145. Product is tested via ELISA techniques as applicable. Minimal cross-reactivity may exist to other similar species.

**Application Notes:** Optimal working concentrations should be determined experimentally. Prepare working dilution in PBS or other buffer. Dilution is not recommended for long-term storage. Suggested dilutions are listed below. In many cases, the antibody may be diluted further than indicated:

Capture Antibody: 10 µg/mL

Primary Antibody: 1-2 µg/mL

### Usage Guidelines

**Storage:** +4°C

**Storage Guidelines:** Store +4°C until rehydrated. Stable for a minimum of 1 year when stored at +4°C. Avoid multiple freeze-thaw cycles.

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**Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.**